

CLAIM LISTING

A listing of an entire set of claims 1-15, including a cancellation of dependent claims 2 and 3 and an addition of new claims 8-14, is submitted herewith per 37 C.F.R. §1.121. This listing of claims 1-15 will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) An electric discharge lamp comprising:

[[-]] a light-transmissive ceramic discharge vessel (1);

[[-]] a first and a second current conductor (2,3) entering the discharge vessel (1) and each supporting an electrode (4,5) in the discharge vessel (1);

[[-]] an ionizable filling comprising a rare gas and a metal halide in the discharge vessel (1);
at least the first current conductor (2) within the discharge vessel (1) being halide-resistant, characterized in that the first current conductor (2) at least substantially comprises a material with an at least substantially isotropic coefficient of thermal expansion,

wherein said material of the first current conductor (2) is chosen from the group of $Y_pSi_3X_q$, wherein Y is chosen from Mo, W and Ta and X is B, Al, N or C with $4 \leq p \leq 5$ and $0 \leq q \leq 1$.

2. (Cancelled)

3. (Cancelled)

4. (Previously Presented) An electric discharge lamp according to claim 1, wherein also the second current conductor (3) at least substantially comprises a material with an at least substantially isotropic coefficient of thermal expansion.

5. (Currently Amended) An electric discharge lamp according to claim 4, wherein said material of the second current conductor (3) is of the composition $Mo_6(Si_x, Mo_{1-x})_z(C_y, Si_{1-y})_6$ with $0.10 \leq x \leq 0.55$ and $0.15 \leq y \leq 0.40$.

6. (Previously Presented) An electric discharge lamp according to claim 1, wherein said material is co-sintered to the ceramic material of the discharge vessel (1) at a manufacturing temperature of the lamp.
7. (Previously Presented) An electric discharge lamp according to claim 1, wherein the first and the second current conductor (2,3) each extend from a sealing compound (6), which seals the discharge vessel (1) around the current conductors (2,3) in a gastight manner, to the exterior of the discharge vessel (1), and wherein the discharge vessel (1) has projecting plugs (11,12) in each of which a respective current conductor (2,3) is enclosed and which plugs (11,12) each have a free end (111,112) where the discharge vessel (1) is sealed by the sealing compound (6).
8. (New) An electric discharge lamp according to claim 4, wherein said material of the second current conductor (3) is chosen from the group of $Y_pSi_3X_q$, wherein Y is chosen from Mo, W and Ta and X is B, Al, N or C with $4 \leq p \leq 5$ and $0 < q \leq 1$.
9. (New) An electric discharge lamp according to claim 1, wherein the first current conductor (2) further comprises a material with a coefficient of thermal expansion corresponding to a coefficient of thermal expansion of the discharge vessel (1).
10. (New) An electric discharge lamp comprising:
 - a light-transmissive ceramic discharge vessel (1);
 - a first and a second current conductor (2,3) entering the discharge vessel (1) and each supporting an electrode (4,5) in the discharge vessel (1);
 - an ionizable filling comprising a rare gas and a metal halide in the discharge vessel (1);
 - at least the first current conductor (2) within the discharge vessel (1) being halide-resistant, characterized in that the first current conductor (2) at least substantially comprises a material with an at least substantially isotropic coefficient of thermal expansion,

wherein said material of the first current conductor (2) is of the composition $\text{Mo}_6(\text{Si}_x, \text{Mo}_{1-x})_4(\text{C}_y, \text{Si}_{1-y})_6$ with $0.10 \leq x \leq 0.55$ and $0.15 \leq y \leq 0.40$.

11. (New) An electric discharge lamp according to claim 10, wherein the first current conductor (2) further comprises a material with a coefficient of thermal expansion corresponding to a coefficient of thermal expansion of the discharge vessel (1).

12. (New) An electric discharge lamp according to claim 10, wherein also the second current conductor (3) at least substantially comprises a material with an at least substantially isotropic coefficient of thermal expansion.

13. (New) An electric discharge lamp according to claim 12, wherein said material of the second current conductor (3) is of the composition $\text{Mo}_6(\text{Si}_x, \text{Mo}_{1-x})_4(\text{C}_y, \text{Si}_{1-y})_6$ with $0.10 \leq x \leq 0.55$ and $0.15 \leq y \leq 0.40$.

14. (New) An electric discharge lamp according to claim 10, wherein said material is co-sintered to the ceramic material of the discharge vessel (1) at a manufacturing temperature of the lamp.

15. (New) An electric discharge lamp according to claim 10, wherein the first and the second current conductor (2,3) each extend from a sealing compound (6), which seals the discharge vessel (1) around the current conductors (2,3) in a gastight manner, to the exterior of the discharge vessel (1), and wherein the discharge vessel (1) has projecting plugs (11,12) in each of which a respective current conductor (2,3) is enclosed and which plugs (11,12) each have a free end (111,112) where the discharge vessel (1) is sealed by the sealing compound (6).